Industrial Stormwater General Permit National Pollutant Discharge Elimination System (NPDES)

Discharge Monitoring Report (DMR)

Site Name: ALASKAN COPPER WORKS	WAR000139	**CB331707**
Site Address: 3200 6th Avenue South		Sampling Point
City: Seattle	**County:** King	

Submit **one** DMR per sampling point.

Reporting Period			
Quarter (indicate) Year: 2010			
1st	2nd	3rd	4th
☐ Jan/Feb/Mar	☐ Apr/May/Jun	☒ Jul/Aug/Sept	☐ Oct/Nov/Dec

Parameter	Units	Benchmark Value (Effluent Limit)*	Analytical Method	Laboratory Quantitation Level	Sample Results			
					SINGLE SAMPLE RESULT	SINGLE SAMPLE DATE (MM/DD)	AVERAGE (If more than one sample collected, complete additional sampling log on next page.)	CONSISTENT ATTAINMENT? (Condition S4.B.6) (✓ for yes)
Turbidity	NTU	25	EPA 180.1, Meter	0.5	23.1	08/31	N/A	☐
pH	s.u.	5 - 9	Meter	±0.5	7.91	08/31	N/A	☐
Zinc, Total	µg/L	117	EPA 200.8	2.5	1,870	08/31	N/A	☐
Oil Sheen	Yes/No	No visible oil sheen	N/A	N/A	Sheen Present? ☐Yes / ☒No	08/31	N/A	N/A
Copper, Total	µg/L	Western WA: 14 Eastern WA: 32	EPA 200.8	2.0	399	08/31	N/A	☐
Lead, Total	µg/L	81.6	EPA 200.8	0.5	6.52	08/31	N/A	☐
Total Petroleum Hydrocarbons (TPH)	mg/L	10	NWTPH-Dx	0.1	2.89	08/31	N/A	☐

☐ No sample collected – No stormwater was discharged during normal working hours.

☐ No sample collected – Stormwater was discharged during normal working hours, but a sample wasn't collected (explain in comments section).

ADDITIONAL COMMENTS:

Certification Statement I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name / Title (printed)	Signature (not valid unless signed). See Permit Condition G2 for signature requirements.	Date Signed
James C Brown / Operations Mgr.	Thomas Brown	10/8/10

Mail your DMR to: Department of Ecology, Water Quality Program – Industrial Stormwater, P.O. Box 47696, Olympia, WA 98504-7696

AKC-0022405

Industrial Stormwater General Permit National Pollutant Discharge Elimination System (NPDES)

Discharge Monitoring Report (DMR)

Site Name: ALASKAN COPPER WORKS		WAR000139	**CB330001**
Site Address: 3200 6th Avenue South			Sampling Point
City: Seattle	**County:** King		

Submit **one** DMR per sampling point.

Reporting Period			
Quarter (indicate) Year: 2010			
1st	2nd	3rd	4th
☐ Jan/Feb/Mar	☐ Apr/May/Jun	☒ Jul/Aug/Sept	☐ Oct/Nov/Dec

Parameter	Units	Benchmark Value (Effluent Limit)*	Analytical Method	Laboratory Quantitation Level	Sample Results			
					SINGLE SAMPLE RESULT	SINGLE SAMPLE DATE (MM/DD)	AVERAGE (If more than one sample collected, complete additional sampling log on next page.)	CONSISTENT ATTAINMENT? (Condition S4.B.6) (✓ for yes)
Turbidity	NTU	25	EPA 180.1, Meter	0.5	15.3	08/31	N/A	☐
pH	s.u.	5 - 9	Meter	±0.5	7.76	08/31	N/A	☐
Zinc, Total	µg/L	117	EPA 200.8	2.5	186	08/31	N/A	☐
Oil Sheen	Yes/No	No visible oil sheen	N/A	N/A	Sheen Present? ☐Yes / ☒No	08/31	N/A	N/A
Copper, Total	µg/L	Western WA: 14 Eastern WA: 32	EPA 200.8	2.0	128	08/31	N/A	☐
Lead, Total	µg/L	81.6	EPA 200.8	0.5	16.3	08/31	N/A	☐
Total Petroleum Hydrocarbons (TPH)	mg/L	10	NWTPH-Dx	0.1	3.08	08/31	N/A	☐

☐ No sample collected – No stormwater was discharged during normal working hours.

☐ No sample collected – Stormwater was discharged during normal working hours, but a sample wasn't collected (explain in comments section).

ADDITIONAL COMMENTS:

Certification Statement I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name / Title (printed)	Signature (not valid unless signed). See Permit Condition G2 for signature requirements.	Date Signed
James C Brown / Operations Mgr.	James C Brown	10/8/10

Mail your DMR to: Department of Ecology, Water Quality Program – Industrial Stormwater, P.O. Box 47696, Olympia, WA 98504-7696

AKC-0022406

QUARTERLY STORMWATER SAMPLING
ALASKAN COPPER WORKS, SEATTLE, WASHINGTON

Quarter: 3Q10 **Date:** 8/31/10 **Sampling Locations:** CB331707 and CB330001

STORMWATER SAMPLING. According to the Industrial Stormwater General Permit condition S4.B, a permittee is required to collect a sample within the first 12 hours of stormwater discharge. Fourth quarter sampling must occur during the first storm event of that quarter. For the other three quarters, sampling does not need to be conducted during the first storm event. Permittees need not sample outside of regular business hours, during unsafe conditions, or during quarters where there is no discharge, but must still submit a Discharge Monitoring Report each reporting period.

1. Time of sampling (should be within 12 hours after discharge begins):	CB331707: 13:10 CB330001: 13:30
2. Did sampling occur within the first 12 hours of discharge?	☑ Yes ☐ No
3. If the answer to question 2 is no, explain why a sample was not collected within the first 12 hours.	
4. For fourth quarter sampling, did the sampling occur during the first storm event of that quarter?	☐ Yes ☐ No ☑ N/A
5. Sampling method (e.g., "from catch basin by hand"):	from catch basin by hand
6. Sampling parameters: turbidity, pH, total copper, total zinc, total lead, total petroleum hydrocarbons, ~~TSS~~	
7. Oil Sheen Present?	CB331707: ☐ Yes ☒ No CB330001: ☐ Yes ☒ No
8. Result of field measurements (pH/Turbidity):	CB331707: pH = 7.91 T = 34.89°F CB330001: pH = 7.76 T = 24.76
9. Field meters calibrated to meter calibration standards prior to sampling?	☑ Yes ☐ No ☐ N/A
10. Comments (i.e., unusual circumstances): CB330001 filter full to overflow level. All new filters.	

Name of sampler: Gary Huitsing

Signature of sampler: [signature] Date: 8/31/10

VISUAL MONITORING REMINDER [If monthly visual monitoring has not already been conducted, record the results of visual monitoring on the separate required Monthly Inspection form].

MONTHLY INSPECTION FORM
ALASKAN COPPER WORKS, SEATTLE, WASHINGTON

Month: August Date: 8/31/10 Time: 13:30 Weather Conditions: Raining

MONTHLY INSPECTION [In accordance with Permit Condition S7, qualified personnel shall conduct and document visual inspections of the site each month. Each inspection shall include: observations made at stormwater sampling locations and areas where stormwater associated with industrial activity is discharged off site, or discharged to waters of the state, or to a storm sewer system that drains to waters of the state. Record the results of each inspection on this form and keep the form on site for Ecology review.

If conducted during a storm event, inspect stormwater discharge for evidence of pollutants entering the drainage system. Check for oil sheen, floating debris, discoloration, turbidity, and odor. Record observations here:

(Inspection locations: CB331707, CB330001, CB330102, and CB SW of Bldg 2958) Unmaintained, City of Seattle-maintained CBs SW of Bldg 2958 - debris, unswept, but drains to City sewer.

Or, if conducted during a non-storm event, check for the presence of illicit discharges such as domestic wastewater, noncontact cooling water, or process wastewater. Groundwater is not considered an illicit discharge. If an illicit discharge is discovered, the Permittee shall notify Ecology within seven days and eliminate the illicit discharge within 30 days. Record observations here:

Inspection observed small sheen in CB330102; oil/sediment trap in place and functioning properly; no discharge observed.

Assess all BMPs that have been implemented paying special attention to the following (check BMPs inspected):

- ☑ Catch basin insert filters inspected and cleaned or replaced as necessary.
- ☑ Liquids stored outdoors are covered or have secondary containment.
- ☑ Covers placed over waste dumpsters and storage containers.
- ☑ Paved areas swept clean. Area around CB331707 swept clean
- ☑ Vehicles and Equipment (no major leaks). ☐ Other BMPs observed? List here:

1. Do the BMPs listed above appear to be effective and functioning adequately and with no observable deviations from the BMP descriptions as described in the SWPPP (Yes / No)?
2. Do the site conditions including potential pollutant sources appear to be consistent with the facility assessment and site map contained in the SWPPP (Yes / No)?

[If the answer to questions 1 or 2 were no, explain here. Include, if applicable, the locations of BMPs that need maintenance, the reason maintenance is needed and a schedule for maintenance, as well as the locations where additional or different BMPs are needed and the rationale for the additional or different BMPs.]

COMPLIANCE STATEMENT: In the judgment of the person identified below as Inspector, the Alaskan Copper Facility is in ☑ **COMPLIANCE OR** ☐ **NON-COMPLIANCE*** (check one) with the terms and conditions of the SWPPP and the Permit. In the judgment of the person identified below as Facility Representative, the Facility is in ☐ **COMPLIANCE OR** ☐ **NON-COMPLIANCE*** (check one) with the terms & conditions of the SWPPP and the Permit.
*If non-compliance, the Permittee shall prepare reports of non-compliance in accordance with the requirements of Condition S9.E of the Permit; and in addition, include as part of this inspection, a summary report and a schedule of implementation of the remedial actions that the Permittee plans to take if the site inspection indicates that the site is out of compliance. The remedial actions taken must meet the requirements of the SWPPP and the permit.

CERTIFICATION: I certify that this report is true, accurate, and complete, to the best of my knowledge and belief.

Name of inspector (1): Gary Hunting Title Senior Project Engineer

Signature of inspector (1): _____ Date 8/31/10

Name of Facility Representative (2): _____ Title _____

Signature of Facility Representative (2) _____ Date _____

(1): As acknowledged by Ecology's Detailed Response to Comments Fact Sheet, APPENDIX C Addendum Part TWO, the certification and signature of the site inspector "may be limited by several factors including incomplete information (e.g., DMR compliance, etc...)". Therefore, by implication, certification and signature by the site inspector does not guarantee site compliance, nor does it imply site inspector liability if non compliance is later determined for the site.

(2) In lieu of Certification and signature of the person described in Condition G2.A of the Permit, a duly authorized representative of the facility, in accordance with Condition G.2.B, may also certify and sign this inspection form.

TABLE 1
STORMWATER ANALYTICAL DATA
ALASKAN COPPER FACILITY - SEATTLE, WASHINGTON

Parameter:			Total Petroleum Hydrocarbons (TPH) (mg/L)	Turbidity (NTU)	pH (std units)	Total Zinc (µg/L)	Total Copper (µg/L)	Total Lead (µg/L)	Hardness (mg/L)	TSS (mg/L)
Current Method:			NWTPH-Dx	Meter	Meter	EPA-200.8	EPA-200.8	EPA-200.8	SM-2340B	SM-2540-D
Old Benchmark Values: (1) (2)			15	25	6 - 9	117	63.6	81.6	N/A	30
Old Action Levels: (1) (2)			30	50	5 - 10	372	149	159	N/A	45
2010 Benchmarks: (1) (3)			10	25	5 - 9	117	14	81.6	N/A	30
Reporting Qtr	Sample ID	Laboratory ID								
4th Qtr 2004	CB331707	412269	16.7	150	8.1	1,100	1200	71	71	--
Previous industrial stormwater permit benchmark and action levels applied starting 1st quarter of 2005										
1st Qtr 2005	--	--	--	--	--	--	--	--	--	--
2nd Qtr 2005	--	--	--	--	--	--	--	--	--	--
3rd Qtr 2005	CB331707	507211	< 5.0 U	45	7	**640**	**470**	40	48	--
4th Qtr 2005	--	--	--	--	--	--	--	--	--	--
1st Qtr 2006	--	--	--	--	--	--	--	--	--	--
2nd Qtr 2006	--	--	--	--	--	--	--	--	--	--
3rd Qtr 2006	--	--	--	--	--	--	--	--	--	--
4th Qtr 2006	--	--	--	--	--	--	--	--	--	--
1st Qtr 2007	--	--	--	--	--	--	--	--	--	--
2nd Qtr 2007	CB331707	M116736	7	33	6.3	**773**	**432**	33	61	--
3rd Qtr 2007	--	--	--	--	--	--	--	--	--	--
4th Qtr 2007	CB331707	M01283	< 2.0	25	6.33	**1,030**	**304**	18.5	--	--
1st Qtr 2008	--	--	--	--	--	--	--	--	--	--
2nd Qtr 2008	--	--	--	--	--	--	--	--	--	--
3rd Qtr 2008	CB331707	M120311	12.6	34	--	**1,200**	**403**	--	76	--
4th Qtr 2008	CB331707	M03417	30	42.5	7.39	**1,300**	**696**	2.88	103	--
1st Qtr 2009 (3/19/09)	CB331707	M03867	6.54	45.3	6.66	**1,390**	**418**	27.9	67.2	--
2nd Qtr 2009 (6/18/09)	CB331707	M04260	14.5	**54.1**	6.48	360	**351**	16.2	167	--
3rd Qtr 2009	CB331707	908066	2.29	14.4	6.91	**1,250**	**210**	4.4	52.8	10
(8/11/09)	CB330001	908067	3.96	29.6	6.81	253	**209**	14.6	32.4	23
4th Qtr 2009	CB331707	912133-01	9.37	39.3	6.97	**1,120**	**414**	27.8	33	**87**
(12/15/09)	CB330001	912133-02	3.37	26.0	6.89	143	146	25.3	15	**60**
Current industrial stormwater permit benchmark values applied starting 1st quarter of 2010										
1st Qtr 2010	CB331707	002117	2.08	32.5	7.55	666	119	7.59		33
(2/11/10)	CB330001	002117	5.7	57.4	7.17	193	163	24.4		62
2nd Qtr 2010	CB331707	006018	1.14	23.2	7.5	666	116	4.86		52 (a)
(6/02/10)	CB330001	006018	10.30	21.1	7.3	119	132	16.7		130 (a)
3rd Qtr 2010	CB331707	008368	2.89	23.1	7.91	1,870	399	6.52		
(8/31/10)	CB330001	008368	3.08	15.3	7.76	186	128	16.3		

TABLE 1
STORMWATER ANALYTICAL DATA
ALASKAN COPPER FACILITY - SEATTLE, WASHINGTON

Notes

= Exceedance of benchmark (2), (3).

Red Value = Exceedance of action level (2).

= Not required to sample for this parameter.

NA = Not applicable.

mg/L = milligrams per liter.

µg/L = micrograms per liter.

-- = Sample not collected this quarter.

Qtr = Quarter.

U = Compound was analyzed for, but was not detected at the reported sample detection limit.

(a) Analysis performed outside the method or client-specified holding time requirement.

(1) The current Industrial Stormwater General Permit became effective 1/1/2010 and contains modified benchmarks and response actions.

(2) Per the **previous** Industrial Stormwater General Permit, Level One Response: Each time after December 31, 2004 quarterly sampling results were above a benchmark value, the Permittee shall initiate a Level One Response. Level Two Response: if any two out of the four previous quarterly sampling results for a parameter are above action levels. Level Three Response: If any four quarterly samples are above action levels.

(3) Effective 1/1/2010, if a Permittee exceeds an applicable benchmark value, the following actions must be taken:
Level One Corrective Action: Permittees that exceed a benchmark value shall complete a Level One Corrective Action for each parameter exceeded.
Level Two Corrective Action: Permittees that exceed an applicable benchmark value (for a single parameter) for any two quarters during a calendar year shall complete a Level Two Corrective Action.
Level Three Corrective Action: Permittees that exceed an applicable benchmark value (for a single parameter) for any three quarters during a calendar year shall complete a Level Three Corrective Action.